

ABSTRACT

This invention provides processes for isolating pharmaceutically active extracts, fractions and compounds from the mushroom *Tricholoma Conglobatum*. In one aspect, a homogenate of *Tricholoma Conglobatum* is extracted from a fraction isolated by column chromatography. It has an optical absorbance between about 210nm and about 350nm and is not heat stable . The active compound, having a molecular weight from about 18 to about 20 kD on SDS-PAGE gel, in the extract is further provided by this invention. A second active fraction isolated from the homogenate of *Tricholoma Conglobatum* can be further processed to separate into two additionally active compounds each of which has characteristics consistent with that of a protein. The fractions, compounds and extracts are useful to inhibit the growth of endothelial cells and to inhibit vascularization in a tissue. Methods of treating various diseases, including cancer, are also provided herein.